

SLR2000 Meteorological Station Specifications

- **Precipitation/Visibility Sensor**
 - Vaisala FD12P (Cost: \$ 17,895)
 - Measures visibility from 10 m to 50 Km
 - Measures type, intensity, and accumulation of precipitation
- **Pressure/Temperature/Humidity Monitor**
 - Paroscientific MET3-1477-001 (Cost: \$3,995)
 - Pressure: Range: 800 to 1100 mbar; Accuracy: ~ 0.1 mbar; stability < 0.1 mbar/yr
 - Temperature: Range: -40 to 70 $^{\circ}\text{C}$; Accuracy < 0.5 $^{\circ}\text{C}$; Stability < 0.1 $^{\circ}\text{C}/\text{yr}$;
 - Relative Humidity: Range: 0 to 100%; accuracy: $\pm 2\%$; stability: $< 1\%/\text{yr}$
- **Wind Monitor**
 - Belfort 200 (Cost: \$800)
 - Wind speed -Range: 0 to 135 mph; Accuracy: ± 0.6 mph
 - Wind Direction: Range: 0 to 360° ; Accuracy: $+3^{\circ}$
- **All-Sky Cloud Sensor**
 - Inframetric ThermasnapTM Thermal Infrared Camera (8 -12 microns) senses $\sim 25^{\circ}\text{F}$ temperature difference between clouds and clear sky via electroformed convex mirror (Cost : \$20,000)
- **Total Subsystem Cost: \$42,690**